

### **INPUT SET: S32736.raw**

**This Raw Listing contains the General Information Section and those Sequences containing ERRORS.**

Section 3 on  
Error Summary  
Sheet

## ERRORED SEQUENCES FOLLOW:

Suggestion: Consult  
Sequoia rules  
for valid format.

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/356,575DATE: 08/02/1999  
TIME: 14:04:52

40 (2) INFORMATION FOR SEQ ID NO:1: *use number 1, not lower-case 'l'* INPUT SET: S32736.raw

41 (i) SEQUENCE CHARACTERISTICS:

42 (A) LENGTH: 21 base pairs

43 (B) TYPE: nucleic acid

44 (C) STRANDEDNESS: single

45 (D) TOPOLOGY: linear

46 (ii) MOLECULE TYPE: other nucleic acid

47 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: *use number 1* CGTGTAGTGT ATTTATACCC G

48 *DO NOT USE TAB COPIES* *← more over*

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49 (2) INFORMATION FOR SEQ ID NO:2: *CRF program needs to 'see' all bases; that is why (A) LENGTH: lines are in bold print.*

50 (i) SEQUENCE CHARACTERISTICS:

51 (A) LENGTH: 21 base pairs

52 (B) TYPE: nucleic acid

53 (C) STRANDEDNESS: single

54 (D) TOPOLOGY: linear

55 (ii) MOLECULE TYPE: other nucleic acid

56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: TCGTCACTGG GTGGAAAGCC A

57 *←*

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58 (2) INFORMATION FOR SEQ ID NO:3: *←*

59 (i) SEQUENCE CHARACTERISTICS:

60 (A) LENGTH: 21 base pairs

61 (B) TYPE: nucleic acid

62 (C) STRANDEDNESS: single

63 (D) TOPOLOGY: linear

64 (ii) MOLECULE TYPE: other nucleic acid

65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: TACCCGCCGT CCTAAAATGG C

66 *←*

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67 (2) INFORMATION FOR SEQ ID NO:4: *←*

68 (i) SEQUENCE CHARACTERISTICS:

69 (A) LENGTH: 20 base pairs

70 (B) TYPE: nucleic acid

71 (C) STRANDEDNESS: single

72 (D) TOPOLOGY: linear

73 (ii) MOLECULE TYPE: other nucleic acid

74 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: TGGACTTGAG CTGTAAACGC

75 *←*

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76 (2) INFORMATION FOR SEQ ID NO:5: *←*

77 (i) SEQUENCE CHARACTERISTICS:

78 (A) LENGTH: 21 base pairs

79 (B) TYPE: nucleic acid

80 (C) STRANDEDNESS: single

81 (D) TOPOLOGY: linear

82 (ii) MOLECULE TYPE: other nucleic acid

83 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: GCCTCCATGG AGGTCAGATG T

84 *←*

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85 (2) INFORMATION FOR SEQ ID NO:6: *←*

86 (i) SEQUENCE CHARACTERISTICS:

87 (A) LENGTH: 20 base pairs

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/356,575DATE: 08/02/1999  
TIME: 14:04:52

INPUT SET: S32736.raw

88 (B) TYPE: nucleic acid  
89 (C) STRANDEDNESS: single  
90 (D) TOPOLOGY: linear  
91 (ii) MOLECULE TYPE: other nucleic acid  
92 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
93 GCTTGAGCCC GAGACATGTC

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94 (2) INFORMATION FOR SEQ ID NO:7:  
95 (i) SEQUENCE CHARACTERISTICS:  
--> 96 (A) LENGTH: 24 base pairs  
97 (B) TYPE: nucleic acid  
98 (C) STRANDEDNESS: single  
99 (D) TOPOLOGY: linear  
100 (ii) MOLECULE TYPE: other nucleic acid  
101 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
102 CCCCTCGAGC TCAATCTGTA T

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103 (2) INFORMATION FOR SEQ ID NO:8:  
104 (i) SEQUENCE CHARACTERISTICS:  
--> 105 (A) LENGTH: 27 base pairs  
106 (B) TYPE: nucleic acid  
107 (C) STRANDEDNESS: single  
108 (D) TOPOLOGY: linear  
109 (ii) MOLECULE TYPE: other nucleic acid  
110 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
111 GGGGGATCCG AACTTGTAA T

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112 (2) INFORMATION FOR SEQ ID NO:9:  
113 (i) SEQUENCE CHARACTERISTICS:  
--> 114 (A) LENGTH: 25 base pairs  
115 (B) TYPE: nucleic acid  
116 (C) STRANDEDNESS: single  
117 (D) TOPOLOGY: linear  
118 (ii) MOLECULE TYPE: other nucleic acid  
119 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
120 GGGAGATCTA GACATGATAA G

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121 (2) INFORMATION FOR SEQ ID NO:10:  
122 (i) SEQUENCE CHARACTERISTICS:  
--> 123 (A) LENGTH: 27 base pairs  
124 (B) TYPE: nucleic acid  
125 (C) STRANDEDNESS: single  
126 (D) TOPOLOGY: linear  
127 (ii) MOLECULE TYPE: other nucleic acid *part number 1*  
--> 128 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
129 GGGAGATCTG TACTGAAATG T

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130 (2) INFORMATION FOR SEQ ID NO:11:  
131 (i) SEQUENCE CHARACTERISTICS:  
--> 132 (A) LENGTH: 24 base pairs  
133 (B) TYPE: nucleic acid  
134 (C) STRANDEDNESS: single  
135 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/356,575DATE: 08/02/1999  
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136 (ii) MOLECULE TYPE: other nucleic acid  
137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
138

GGAGGCTGCA GTCTCCAACG G

139 (2) INFORMATION FOR SEQ ID NO:12:

140 (i) SEQUENCE CHARACTERISTICS:

141 (A) LENGTH: 27 base pairs  
142 (B) TYPE: nucleic acid  
143 (C) STRANDEDNESS: single  
144 (D) TOPOLOGY: linear

145 (ii) MOLECULE TYPE: other nucleic acid  
146 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

147 GGGGGATCCT CAAATCGTCA C

148 (2) INFORMATION FOR SEQ ID NO:13:

149 (i) SEQUENCE CHARACTERISTICS:

150 (A) LENGTH: 27 base pairs  
151 (B) TYPE: nucleic acid  
152 (C) STRANDEDNESS: single  
153 (D) TOPOLOGY: linear

154 (ii) MOLECULE TYPE: other nucleic acid  
155 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

156 GGGGTCTAGA CATCATCAAT A

157 (2) INFORMATION FOR SEQ ID NO:14:

158 (i) SEQUENCE CHARACTERISTICS:

159 (A) LENGTH: 32 base pairs  
160 (B) TYPE: nucleic acid  
161 (C) STRANDEDNESS: single  
162 (D) TOPOLOGY: linear

163 (ii) MOLECULE TYPE: other nucleic acid  
164 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

165 GGCAGAATTCTG TCGACAT

166 (2) INFORMATION FOR SEQ ID NO:15:

167 (i) SEQUENCE CHARACTERISTICS:

168 (A) LENGTH: 32 base pairs  
169 (B) TYPE: nucleic acid  
170 (C) STRANDEDNESS: single  
171 (D) TOPOLOGY: linear

172 (ii) MOLECULE TYPE: other nucleic acid  
173 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

174 GGCAGAATTCTG GTACCAT

175 (2) INFORMATION FOR SEQ ID NO:16:

176 (i) SEQUENCE CHARACTERISTICS:

177 (A) LENGTH: 17 base pairs  
178 (B) TYPE: nucleic acid  
179 (C) STRANDEDNESS: single  
180 (D) TOPOLOGY: linear

181 (ii) MOLECULE TYPE: other nucleic acid  
182 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

183 CTGTGTACAC CGGGCGCA

## (2) INFORMATION FOR SEQ ID NO:19:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 55 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

last cumulative total  
 States 5620

(ii) MOLECULE TYPE: other nucleic acid

TCGTAACAAC TCCGCCCAT TGACGCAAAT GGGCGGTAGG CGTGTACGGT GGGAGGTCTA

TGACCTCCAT AGAAGACACC GGGACCGATC CAGCCTCCGG ACTCTAGAGG ATCCGGTACT  
 CGAGGAACTG AAAAACAGA AAGTTAACTG GTAAGTTAG TCTTTTGTC TTTTATTCA

CTTCTAGTAT CAAGCTTGAAT TTACATTCTT GAATGTCGCT CGCAGTGACA  
 TTAGCATTCC GGTACTGTTG GTAAAATGGA AGACGCCAAA AACATAAAGA AAGGCCCGC  
 GCCATTCTAT CCTCTAGAGG ATGGAACCGC TGGAGAGCAA CTGCATAAGG CTATGAAGAA  
 ATACGCCCTG GTTCTGGAA CAATTGCTT TACAGATGCA CATATCGAGG TGAACATCAC  
 GTACGCGGAA TACTTCGAA TGTCCTGTCG GTTGGCAGAA GCTATGAAAC GATATGGCT  
 GAATACAAAT CACAGAATCG TCGTATGCAG TGAAAACCTCT CTTCAATTCT TTATGCCGT  
 GTTGGGCGCG TTATTTATCG GAGTTGCAGT TGCGCCCGCG AACGACATTT ATAATGAACG  
 TGAATTGCTC AACAGTATGA ACATTTCGCA GCCTACCGTA GTGTTGTTT CCAAAAAGGG  
 GTTGCACAAAATTTTGAAACG TGCAAAAAAA ATTACCAATA ATCCAGAAAAA TTATTATCAT

CTTTCTACT  
 TTGGCAGTAC  
 CCCCATTGAC

TATAAGCAGA  
 1080  
 1140  
 GGTCCCGGAT

TGCACTGATA ATGAATTCTCTGGATCTAC TGGGTTACCT AAGGGTGTGG CCCTTCCGCA  
 TAGAACTGCCC TGCCTCAGAT TCTCGCATGC CAGAGATCCT ATTGTTGGCA ATCAAATCAT  
 TCCGGATACT GCGATTAAAT GTGTTGTTCC ATTCCATCAC GGTTTGGAA TGTTTACTAC  
 ACTCGGATAT TTGATATGTG GATTCGAGT CGTCTTAATG TATAGATTG AAGAAGAGCT  
 GTTTTACGA TCCCTTCAGG ATTACAAAT TCAAAGTGC TTGCTAGTAC CAACCTATT  
 TTCATTCTTC GCCAAAAGCA CTCTGATTGA CAAATACGAT TTATCTAATT TACACGAAAT  
 TGCTTCTGGG GGCGCACCTC TTTCGAAAGA AGTCGGGAA GCGGTTGCAA AACGCTTCCA  
 TCTTCAGGG ATACGACAAG GATATGGCT CACTGAGACT ACATCAGCTA TTCTGATTAC  
 ACCCGAGGGG GATGATAAAC CGGGCGCGT CGGTAAAGTT GTTCCATTGTT TTGAAGCGAA  
 GGTTGTGGAT CTGGATACCG GGAAAACGCT GGGCGTTAAT CAGAGAGGCG AATTATGTGT  
 CAGAGGACCT ATGATTATGT CCGGTTATGT AAACAATCCG GAAGCGACCA ACGCCTTGAT  
 TGACAAGGAT GGATGGCTAC ATTCTGGAGA CATAGCTTAC TGGGACGAAG ACGAACACTT  
 CTTCATAGTT GACCGCTTGA AGTCTTAAT TAAATACAAA GGATATCAGG TGGCCCCCGC  
 TGAATTGGAA TCGATATTGT TACAACACCC CAACATCTTC GACGCGGGCG TGGCAGGTCT  
 TCCCGACGAT GACGCCGGTG AACTTCCCAGT CGCCGTTGTT GTTTGGAGC ACGGAAAGAC  
 GATGACGGAA AAAGAGATCG TGGATTACGT CGCCAGTCAA GTAACAACCG CGAAAAGTT  
 GCGCGGAGGA GTTGTGTTG TGGACGAAGT ACCGAAAGGT CTTACCGAA AACTCGACGC  
 AAGAAAATC AGAGAGATCC TCATAAAGGC CAAGAAGGGC GGAAAGTCCA ATTGTAAAA  
 TGTAACTGTA TTCAGCGATG ACGAAATTCT TAGCTATTGT AATGGGGAT CCCCAACTTG  
 TTTATTGCACTT CTTATAATGG TTACAAATAA AGCAATAGCA TCACAAATTTCACAAATAAA  
 GCATTTTTT CACTGCATTG TAGTTGTGGT TTGTCAAAC AGCAATAGCA TCACAAATTTCACAAATAAA  
 GTCTGGATCG GATCGATCCC CGGGTACCGA GCTCGAATTG GTAATCATGG TCATAGCTGT  
 TTCCGTGTG AAATTGTTAT CCGCTCACAA TTCCACACAA CATACTGAGCC GGAAGCATAA  
 AGTGTAAAGC CTGGGGTGCC TAATGAGTGA GCTAACTCAC ATTAATTGCG TTGCGCTCAC  
 TGCCCGCTT CCAGTCGGGA AACCTGTCGT GCCAGTGCA TTAATGAATC GGCAACCGCG  
 CGGGGAGAGG CGGTTGCGT ATTGGGCGCT CTTCCGCTTC CTCGCTCACT GACTCGCTGC  
 GCTCGGTCGT TCGGCTCGGG CGAGCGGTAT CAGCTCACTC AAAGGCGGTAA ATACGGTTAT  
 CCACAGAACG AGGGGATAAC GCAGGAAAGA ACATGTGAGC AAAAGGCCAG CAAAAGGCCA  
 GGAACCGTAA AAAGGCCCGG TTGCTGGCGT TTTTCATAG GCTCCGCCCG CCTGACGAGC  
 ATCACAAAAA TCGACGCTCA AGTCAGAGGT GGCAGAACCC GACAGGACTA TAAAGATACC  
 AGGCCTTCC CCCTGGAAAGC TCCCTCGTGC GCTCTCTGT TCCGACCTG CCGCTTACCG  
 GATACCTGTC CGCCTTCTC CCTTCGGGAA GCGTGGCGCT TTCTCATAGC TCACGCTGTA  
 GGTATCTCAG TTCGGTGTAG GTCGTTGCT CCAAGCTGGG CTGTGTGCAC GAACCCCCCG  
 TTCAGCCCCA CCGCTGCGCC TTATCCGGTA ACTATCGTCT TGAGTCCAAC CCGGTAAGAC

GGATTCTAAA  
 ACCTCCCGGT

all  
 text  
 and  
 cumulative  
 base totals  
 need to be  
 visible on  
 page

09/356,575

ACGACTTATC GCCACTGGCA GCAGCCACTG GTAACAGGAT TAGCAGAGCG AGGTATGTAG  
GCGGTGCTAC AGAGTTCTTG AAGTGGTGGC CTAAC TACGG CTACACTAGA AGGACAGTAT  
TTGGTATCTG CGCTCTGCTG AAGCCAGTTA CCTTCGGAAA AAGAGTTGGT AGCTCTTGAT  
CCGGCAAACA AACCAACCGCT GGTAGCGGTG GTTTTTTGT TTGCAAGCAG CAGATTACGC  
GCAGAAAAAA AGGATCTCAA GAAGATCCTT TGATCTTTTC TACGGGGTCT GACGCTCA GT  
GGAACGAAAAA CTCACGTTAA GGGATTTGG TCATGAGATT ATCAAAAAGG ATCTTCACCT  
AGATCCTTT AAATTAAAAAA TGAAGTTTA AATCAATCTA AAGTATATAT GAGTAAAC TT  
GGTCTGACAG TTACCAATGC TTAATCAGTG AGGCACCTAT CTCAGCGATC TGTCTATTT  
GTTCATCCAT AGTGCCTGA CTCCCCGTG TGAGATAAC TACGATAACGG GAGGGCTTAC  
CATCTGGCCC CAGTGCTGCA ATGATAACCGC GAGACCCACG CTCACCGGCT CCAGATTAT  
CAGCAATAAA CCAGCCAGCC GGAAGGGCCG AGCGCAGAAG TGGTCCTGCA ACTTTATCCG  
CCTCCATCCA GTCTATTAAAT TGTTGCCGG AAGCTAGAGT AAGTAGTTCG CCAGTTAATA  
GTTTGC GCAA CGTTGTTGCC ATTGCTACAG GCATCGTGGT GTCACGCTCG TCGTTTGGTA  
TGGCTTCATT CAGCTCCGGT TCCCAACGAT CAAGGGCAGT TACATGATCC CCCATGTTGT  
GCAAAAAGC GGTTAGCTCC TTCGGTCCTC CGATCGTTGT CAGAAGTAAG TTGGCCGCAG  
TGTATCACT CATGGTTATG GCAGCACTGC ATAATCTCT TACTGTCATG CCATCCGTAA  
GATGCTTTTC TGTGACTGGT GAGTACTCAA CCAAGTCATT CTGAGAATAG TGTATGCCGC  
GACCGAGTTG CTCTGCCCG GCGTCAATAC GGGATAATAC CGGCCACAT AGCAGAACCT  
TAAAAGTGCT CATCATTGGA AACGTTCTT CGGGCGAAA ACTCTCAAGG ATCTTACCGC  
TGGTGAGATC CAGTCGATG TAACCCACTC GTGCACCCAA CTGATCTTCA GCATCTTTA  
CTTTCACCAAG CGTTCTGGG TGAGCAAAA CAGGAAGGCA AAATGCCCA AAAAAGGGAA  
TAAGGGCGAC ACGGAAATGT TGAATACTCA TACTCTTCTT TTTCAATAT TATTGAAGCA  
TTTATCAGGG TTATTGTC TCAATGAGCGGAT ACATATTGA ATGTATTAG AAAAATAAAC  
AAATAGGGGT TCCCGCACA TTTCCCCGAA AAGTGCCACC TGACGTCTAA GAAACCATTA  
TTATCATGAC ATTAACCTAT AAAAATAGGC GTATCACGAG GCCTATGCCG TGTGAAATAG  
CGCACAGATG CGTAAGGAGA AAATACCGCA TCAGGCCCA TTGCCATTG AGGCTGCCA  
ACTGTTGGGA AGGGCGATCG GTGCCGGCCT TTGCGTATT ACGCCAGCTG GCGAAAGGG  
GATGTGCTGC AAGGCGATTA AGTTGGGTAA CGCCAGGGTT TTCCCAGTCA CGACGTTGTA

AAACGACGGC CAGTGCC

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 45 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: linear

Seq 20 and 21 missing

(ii) MOLECULE TYPE: other nucleic acid

(iii) HYPOTHETICAL: YES

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GTACACTGAC CTAGTGC CGCCG CCGGGCAAAAG CC~~Q~~OOGCGGC ACTAG

45

what is this? These are invalid  
nucleic acid designation,  
per 1822 (b) of Sequence  
Rules.

Please ensure: 1) all (A) LENGTH responses reflect  
actual number of bases  
2) all bases are valid nucleic acid  
designation, per 1822 (b) of Sequence  
Rules.